



PATENT ABSTRACTS OF JAPAN

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(54) TEMPERATURE SENSITIVE CYLINDER HOLDER

(57) Abstract:

PROBLEM TO BE SOLVED: To prevent a temperature sensitive cylinder or a holder from being adversely affected even if ice is generated between the temperature sensitive holder for detecting the temperature of a heat sink reaching a minus centigrade temperature and the cylindrical holder by effectively releasing pressure generated in a gap following the growth of ice from a hole part to the outside.

SOLUTION: When heat is absorbed from a heat sink 2 until water 11 entering a gap between a cylindrical holder 1 and a temperature sensitive cylinder 3 reaches a minus centigrade temperature, also water 11 in a round hole 10 becomes ice in the end. In other words, since the round hole 10 is located in the wall surface position of the cylindrical holder 1 farthest from the heat sink 2, pressure in a gap generated by ice 12 grown in the gap between the cylindrical holder 1 and the temperature sensitive cylinder 3 is effectively re-

leased through the round hole 10 to the outside. Thus, since the generation of high pressure in the gap is easily suppressed, the outward expansion of the cylindrical holder 1 or the deformation of the temperature sensitive cylinder 3 is eliminated, and thus the temperature of the heat sink 2 is always detected accurately by the temperature sensitive cylinder 3.

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